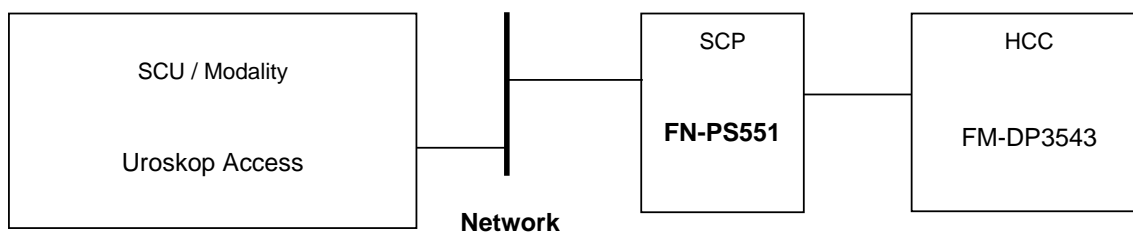


Product:	Urooskop Access
Title:	Specific Hardcopy Camera Information for FUJI FM-DP3543 / FN-PS551
Systems affected:	Image System ASPIA
Replaces:	n.a.

1 General Information

1.1 Block Diagram



1.2 Available Film Sizes

Application			Film Type	Medium Type
14"x17"	Portrait	yes	DI-AT	blue based
	Landscape	yes		
14"x14"	Portrait	n.a.	n.a.	n.a.
	Landscape	n.a.		
11"x14"	Portrait	n.a.	n.a.	n.a.
	Landscape	n.a.		
8"x10"	Portrait	n.a.	n.a.	n.a.
	Landscape	n.a.		
others		n.a.	n.a.	n.a.

yes - Film size is available and released
no - Film size is available but not released
n.a. - Film size is not available

1.3 Restrictions

A special densitometer is required, or X-Rite 301 X with Fuji filter and Fuji certificate
Additional labelings and trim must be switched off.
For HCC-independent restrictions, see also the general restrictions in the document Urooskop Access, General Hardcopy Information.

2 Modality SW Configurations / Parameters

Refer to: Uroskop Access, General Hardcopy Camera Information

Application Entity Properties		Display	Changes allowed yes/no
AE Title		FMDP3543	Yes
Port Number		104	No
Supported DICOM Services		Print	No

HC Device / General Settings		Display	Changes allowed yes/no
Type		DICOMprinter	No
Class (Printer spec file name)		fujifl_dp_3543	No
DICOM Node		fmdp3543	Yes
Filming Properties		Display	Changes allowed yes/no
Hold printed film jobs		10	Yes
Min. density		0.20	Yes
Pixel Size [1/1000 mm]		85 x 85	No
Film Sheet Formats Portrait	Number of pixels [columns x rows]	14x17 inches 4072x4891	In "define new" Do not modify/add Select only Delete only
Film Sheet Formats Landscape	Number of pixels [columns x rows]	14x17 inches 4972x3993	In "define new" Do not modify/add Select only Delete only
Medium Type		blue film	Yes
Film Destination		processor	No
Color appearance		monochrome	No
Background		black	Yes
Transformation		no magnification	No

Note: Do not modify and/or add film sizes.
Do not modify pixel sizes.
Delete film sizes that are not available at customer site.

3 Hardcopy Camera, Configuration

3.1 Identification

Device-Type:	DICOM Print Server(SCP)	Printer
Manufacturer / Device Name:	FUJI Photo Film / FN-PS 551	FUJI Photo Film / FM – DP 3543
HW Revision	Dell – PC, Optiplex GX 1	Ser.-No. 7652003
SW Revision:	A 06	C 02
Image Memory:	6 GB(128MB Main Memory)	96 MB
Harddisk:	6,4 GB	None
Number of Operating Panels:	1 PC-Tastatur	1 built in Keypad
No./Typ of Input:	1 Ethernet - UTP,	FIX 90 A
No./Typ of Output:	1 SCSI-DXA 01 Board(FUJI-DMS Protokoll)	
Physical Network Interface:	100/10Base-T Ethernet, UTP/STP	None
Network Protocol:	TCP / IP	None
DICOM Conformance Statement:	FUJI Network Print Server FN-PS551, May 2001, 4 th Edition	None

Specific FUJI FM-DP3543 / FN-PS551 Information

3.2 SCP / Printer Settings (provided by FUJI)

file name	content	remarks
None	FUJI Service Utility setting:	Provided by FUJI
	Function	Properties
	Protocols: DICOM	Network port no. = 104
		data transfer timeout = 3600 sec.
		Print Server Application Entity = one to each printer
		Data receive if the printer is off-line = enable
	Printer: FMDP3543	Properties
	Name:	AE Title of DICOM = FMDP3543
		Fine printing = off
	Interface:	interface = E-i/f
		pixel clock = 1,0 µsec/pixel
		version = type 1
		Filmsize = 14x17 (dimmed)
		Film medium = blue (dimmed)
	Model:	model = FN-PS551
		manufacturer = FUJI PHOTO FILM CO, LTD
	Clients: DICOM: UroA	Properties
	name:	Hostname = UroA
		IP adress = (from System Administrator)
	protocol:	Protocol = DICOM
		Application Entity Title = MERGE_PRINT_SCU
		Attribute list error(0107H warning) = indicate
		Attribute value out of range(0116H warning) = indicate
		Image size larger than image box(B604H warning) = indicate
		N-Event-Report-RQ = disabled
		Use Presentation LUT = No
		Data transfer timeout = enabled
		Use extension format = No
	magnify:	procedure = SSM
		default smoothing type = SHARP
	LUT:	procedure = SAR
		default LUT = 1 (linear)
		Adj. parameter LUT = 1
		rtable no. = 17
		Max. density = 300
		Min. density = 15
		number of tuning points = 0
	printer:	fixed, FMDP3543
	output format1:	border density = 300
		polarity = normal(Pos.)
		trim density = 300
		trim = off
		trim width = 1 pixel
		number of copies = 1
		film size = 14x17
		medium type = blue
		film orientation = portrait
		mirror = OFF(normal)
		overlay threshold density = 120
	output format2:	a margin between image = 20 pixel
		Image Layout = concentration
	Annotation: Print Server	Upper left = (nothing selected)

Specific FUJI FM-DP3543 / FN-PS551 Information

	Upper center = (nothing selected) Upper right = (nothing selected) Lower left = (nothing selected) Lower center = (nothing selected) Lower right = (nothing selected)
Logging:	network = (No) printer = (No) DICOM = normal output image to file = off Precedence = Input
Sorting:	sorting conditions = (nothing selected)
Note: 2 cameras (each with a separate channel) are possible to connect to PS551. For the test only one printer connection is used.	

Note1: Maximum number of associations supported: 6

3.3 Error and Warning Messages

Printer (SCP) defined message	Displayed message at modality (SCU)
FAILURE: UNKNOWN	Unspecified problem with camera
SUPPLY EMPTY	Camera out of film
RECEIVER FULL	Receiver full
During "Printer offline and warming up" always "Unspecified problem with camera" was displayed at modality, instead of specified "PRINTER OFFLINE or PRINTER DOWN".	

No other errors or warnings have been tested.

4 Image Quality and Optical Density

4.1 Reference Film and LUT

Released Film Type	DI AT	
--------------------	-------	--

Refer to: Uroskop Access, General Hardcopy Camera Information

4.2 Real Size Scaling

n.a.

5 Abbreviations

DCS	DICOM Conformance Statement
DICOM	Digital Imaging and Communication in Medicine
HW / SW	Hardware / Software
HCC	Hardcopy Camera
LUT	Look Up Table
OEM	Original Equipment Manufacturer
SCP	Service Class Provider
SCU	Service Class User
TCP/IP	Transfer Control Protocol / Internet Protocol

6 Changes to Previous Version

All chapter were updated.

© Siemens AG 2003

The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.